

What is claimed is:

1 1. A switch, comprising:

2 a substrate;

3 an elongated movable part;

4 a pair of electrical contacts disposed at one side of said part;

5 an actuation electrode disposed at said one side of said part and
6 separated from said pair of electrical contacts;

7 wherein said part, said contacts and said electrode are disposed
8 on said substrate, wherein said elongated movable part is

9 arranged and dimensioned such that said movable part is
10 movable in a lateral direction generally toward said

11 contacts, and wherein said movable part includes a central
12 elongated member fixed to a head having an electrical

13 contact disposed at said one side.

1 2. The switch as claimed in claim 1, wherein said central elongated member

2 includes thin-film electrically conductive materials provided on an elongated insulating

3 member.

1 3. The switch as claimed in claim 1, wherein said head has a cylindrical shape.

1 4. The switch as claimed in claim 1, further comprising an anchor, wherein
2 said elongated insulating member is disposed within said anchor.

1 5. The switch as claimed in claim 1, further comprising an anchor, wherein
2 said anchor includes a pin, said pin being movably attached within a slot in said insulating
3 member in a direction normal to said insulating member, so that said insulting member is
4 movable laterally around said pin.

 6. The switch as claimed in claim 1, further comprising another pair of
 electrical contacts disposed at another side of said part opposite said one side.

 7. The switch as claimed in claim 1, wherein said head includes another
 electrical contact disposed at said another side of said part.

1 8. The switch as claimed in claim 1, wherein said head comprises a central
2 insulating material, said contact being disposed at one end of said material.

1 9. The switch as claimed in claim 1, wherein said elongated insulating
2 member comprises an insulator, the insulator being selected from the group consisting of
3 SiO₂, SiN, Silicon Oxynitride, SiON, Al₂O₃, AlN, TiO₂, ZrO₂, HfO₂, Ta₂O₅, TaON, and
4 other High k and Low k dielectric constant materials.

1 10. The switch as claimed in claim 1, wherein said head comprises an
2 elastomeric material.

1 11. The switch as claimed in claim 1, wherein at least one of said electrical
2 contacts is connected to a source of Rf signals.

1 12. The switch as claimed in claim 1, further comprising a pivot at an end of
said central elongated member opposite to an end at which said head is fixed.

1 13. The switch as claimed in claim 1, further comprising a second head located
2 at an end of said switch opposite to an end at which said first head is fixed.

1 14. The switch as claimed in claim 1, wherein said head has a V-shape.

1 15. The switch as claimed in claim 14, wherein said pair of electrical contacts
2 is located at two opposite ends of said head.

1 16. The switch as claimed in claim 1, wherein said head comprises a central
2 conductive material, and an insulting material disposed along a length of said conductive
3 material.

1 17. The switch as claimed in claim 1, wherein said switch comprises another

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head located at an end opposite said end at which said first head is fixed, each head having

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a V-shape.

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